

**SYSTEM FOR INTERCONNECTING CIRCUIT-BASED TERMINAL DEVICES  
WITH PACKET-BASED TERMINAL DEVICES  
IN A VOICE COMMUNICATION CONNECTION**

**Abstract**

5           The system for interconnecting circuit-based terminal devices with packet-based terminal devices in a voice communication connection (packet-based terminal device addressing system) provides service capabilities that allow a calling party to address packet-based terminal devices without consuming telephone numbers. In this case, the calling party, using a circuit-based terminal device such as a traditional  
10   telephone or video telephone, initiates a call to a called party, using the called party's telephone number. The packet-based terminal device addressing system presumes that the owner of the packet-based terminal device also owns a circuit-based terminal device and therefore reuses the point of presence address of the circuit-based terminal device (telephone number) for the packet-based terminal device. The packet-  
15   based terminal device addressing system employs the use of a plurality of existing systems, such as VXML, ASR, residential gateways and directory services, to locate and connect to the called party's packet-based terminal device.